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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/660,611	09/12/2003		Chun Ho Fan	50626.55	6110
35510	7590	04/11/2005		EXAMINER	
KEATING & BENNETT, LLP				KEBEDE, BROOK	
10400 EATON PLACE SUITE 312				ART UNIT	PAPER NUMBER
FAIRFAX,	FAIRFAX, VA 22030			2823	_
				DATE MAILED: 04/11/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s)							
10/660,611 FAN ET AL.							
Office Action Summary Examiner Art Unit							
Brook Kebede 2823							
The MAILING DATE of this communication appears on the cover sheet with the correspondence add	iress						
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this con  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).	nmunication.						
Status							
1) Responsive to communication(s) filed on 12 September 2003.							
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the	merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-25</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) 1-25 are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFF	R 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTC	D-152.						
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National S	Stage						
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-6) Other:	152)						

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## DETAILED ACTION

## Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

Group I, Claims 1-12, drawn to process for manufacturing an IC package, classified in class 438, subclass 106.

Group II, Claims 13-25, drawn to an IC package, classified in class 257 subclass 678+.

- 2. The inventions are distinct, each from the other because of the following reasons:
- 3. Inventions Group I and Group II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the device of the group II can be manufactured by encapsulating the surface of the substrate with molding material which semiconductor die mounted thereof and etching the molding material to form a via to expose conductive traces which electrically connected with the semiconductor die and forming a bump that electrically connected with the conductive traces instead of encapsulating said semiconductor die and said balls in an over mold material on said substrate such that portions of said balls are exposed.
- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 5. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

currently named inventors is no longer an inventor of at least one claim remaining in the

application. Any amendment of inventorship must be accompanied by a request under 37 CFR

1.48(b) and by the fee required under 37 CFR 1.17(i).

Correspondence

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Brook Kebede whose telephone number is (571) 272-1862. The

examiner can normally be reached on 8-5 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Olik Chaudhuri can be reached on (571) 272-1855. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brook Kebede

Brook Kekede

Examiner

Art Unit 2823

BK

April 7, 2005